

RAW SEQUENCE LISTING

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Application Serial Number: 101815,340
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RAW SEQUENCE LISTING

DATE: 07/01/2005

PATENT APPLICATION: US/10/815,340

TIME: 14:40:51

Input Set : N:\Crf3\RULE60\10815340.raw.txt

Output Set: N:\CRF4\07012005\J815340.raw

1 <110> APPLICANT: Berzofsky, Jay A.
 2 Belyakov, Igor M.
 3 Derby, Michael A.
 4 Kelsall, Brian L.
 5 Strober, Warren
 6 THE GOVERNMENT OF THE UNITED STATES OF AMERICA, as
 7 <120> TITLE OF INVENTION: MUCOSAL CYTOTOXIC T LYMPHOCYTE RESPONSES
 8 <130> FILE REFERENCE: 368200PCSEQ
 9 <140> CURRENT APPLICATION NUMBER: US/10/815,340
 10 <141> CURRENT FILING DATE: 2004-03-30
 11 <150> PRIOR APPLICATION NUMBER: US/09/508,552
 12 <151> PRIOR FILING DATE: 2000-06-12
 13 <150> PRIOR APPLICATION NUMBER: 60/058,523
 14 <151> PRIOR FILING DATE: 1997-09-11
 15 <150> PRIOR APPLICATION NUMBER: 60/074,894
 16 <151> PRIOR FILING DATE: 1998-02-17
 17 <160> NUMBER OF SEQ ID NOS: 20
 18 <170> SOFTWARE: PatentIn Ver. 2.0
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 35
 22 <212> TYPE: PRT
 23 <213> ORGANISM: Human immunodeficiency virus type 1
 24 <400> SEQUENCE: 1
 25 Glu Gln Met His Glu Asp Ile Ile Ser Leu Trp Asp Gln Ser Leu Lys
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 27 Pro Cys Val Lys Arg Ile Gln Arg Gly Pro Gly Arg Ala Phe Val Thr
 28 20 25 30
 29 Ile Gly Lys
 30 35
 32 <210> SEQ ID NO: 2
 33 <211> LENGTH: 39
 34 <212> TYPE: PRT
 35 <213> ORGANISM: Human immunodeficiency virus type 1
 36 <400> SEQUENCE: 2
 37 Lys Gln Ile Ile Asn Met Trp Gln Glu Val Gly Lys Ala Met Tyr Ala
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 39 Pro Pro Ile Ser Gly Gln Ile Arg Arg Ile Gln Arg Gly Pro Gly Arg
 40 20 25 30
 41 Ala Phe Val Thr Ile Gly Lys
 42 35
 44 <210> SEQ ID NO: 3
 45 <211> LENGTH: 39
 46 <212> TYPE: PRT

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47 <213> ORGANISM: Human immunodeficiency virus type 1
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 51 Glu Pro Leu Gly Val Ala Pro Thr Arg Ile Gln Arg Gly Pro Gly Arg
 52 20 25 30
 53 Ala Phe Val Thr Ile Gly Lys
 54 35
 55 <210> SEQ ID NO: 4
 56 <211> LENGTH: 48
 57 <212> TYPE: PRT
 58 <213> ORGANISM: Human immunodeficiency virus type 1
 59 <400> SEQUENCE: 4
 60 Ala Val Ala Glu Gly Thr Asp Arg Val Ile Glu Val Val Gln Gly Ala
 61 1 5 10 15
 62 Tyr Arg Ala Ile Arg His Ile Pro Arg Arg Ile Arg Gln Gly Leu Glu
 63 20 25 30
 64 Arg Arg Ile Gln Arg Gly Pro Gly Arg Ala Phe Val Thr Ile Gly Lys
 65 35 40 45
 66 <210> SEQ ID NO: 5
 67 <211> LENGTH: 42
 68 <212> TYPE: PRT
 69 <213> ORGANISM: Human immunodeficiency virus type 1
 70 <400> SEQUENCE: 5
 71 Asp Arg Val Ile Glu Val Val Gln Gly Ala Tyr Arg Ala Ile Arg His
 72 1 5 10 15
 73 Ile Pro Arg Arg Ile Arg Gln Gly Leu Glu Arg Arg Ile Gln Arg Gly
 74 20 25 30
 75 Pro Gly Arg Ala Phe Val Thr Ile Gly Lys
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 77 <210> SEQ ID NO: 6
 78 <211> LENGTH: 30
 79 <212> TYPE: PRT
 80 <213> ORGANISM: Human immunodeficiency virus type 1
 81 <400> SEQUENCE: 6
 82 Asp Arg Val Ile Glu Val Val Gln Gly Ala Tyr Arg Ala Ile Arg Arg
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 84 Ile Gln Arg Gly Pro Gly Arg Ala Phe Val Thr Ile Gly Lys
 85 20 25 30
 86 <210> SEQ ID NO: 7
 87 <211> LENGTH: 32
 88 <212> TYPE: PRT
 89 <213> ORGANISM: Human immunodeficiency virus type 1
 90 <400> SEQUENCE: 7
 91 Ala Gln Gly Ala Tyr Arg Ala Ile Arg His Ile Pro Arg Arg Ile Arg
 92 1 5 10 15
 93 Arg Ile Gln Arg Gly Pro Gly Pro Arg Ala Phe Val Thr Ile Gly Lys
 94 20 25 30
 95 <210> SEQ ID NO: 8

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101 <211> LENGTH: 35
102 <212> TYPE: PRT
103 <213> ORGANISM: Human immunodeficiency virus type 1
104 <400> SEQUENCE: 8
105 Glu Gln Met His Glu Asp Ile Ile Ser Leu Trp Asp Gln Ser. Leu Lys
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107 Pro Cys Val Lys Arg Ile His Ile Gly Pro Gly Arg Ala Phe Tyr Thr
108 20 25 30
109 Thr Lys Asn
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112 <210> SEQ ID NO: 9
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117 Lys Gln Ile Ile Asn Met Trp Gln Glu Val Gly Lys Ala Met Tyr Ala
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121 Ala Phe Tyr Thr Thr Lys Asn
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124 <210> SEQ ID NO: 10
125 <211> LENGTH: 39
126 <212> TYPE: PRT
127 <213> ORGANISM: Human immunodeficiency virus type 1
128 <400> SEQUENCE: 10
129 Arg Asp Asn Trp Arg Ser Glu Leu Tyr Lys Tyr Lys Val Val Lys Ile
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131 Glu Pro Leu Gly Val Ala Pro Thr Arg Ile His Ile Gly Pro Gly Arg
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133 Ala Phe Tyr Thr Thr Lys Asn
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136 <210> SEQ ID NO: 11
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138 <212> TYPE: PRT
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140 <400> SEQUENCE: 11
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142 1 5 10 15
143 Tyr Arg Ala Ile Arg His Ile Pro Arg Arg Ile Arg Gln Gly Leu Glu
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145 Arg Arg Ile His Ile Gly Pro Gly Arg Ala Phe Tyr Thr Thr Lys Asn
146 35 40 45
148 <210> SEQ ID NO: 12
149 <211> LENGTH: 42
150 <212> TYPE: PRT
151 <213> ORGANISM: Human immunodeficiency virus type 1
152 <400> SEQUENCE: 12
153 Asp Arg Val Ile Glu Val Val Gln Gly Ala Tyr Arg Ala Ile Arg His

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Input Set : N:\Crf3\RULE60\10815340.raw.txt
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154 1 5 10 15
 155 Ile Pro Arg Arg Ile Arg Gln Gly Leu Glu Arg Arg Ile His Ile Gly
 156 20 25 30
 157 Pro Gly Arg Ala Phe Tyr Thr Thr Lys Asn
 158 35 40
 160 <210> SEQ ID NO: 13
 161 <211> LENGTH: 30
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 163 <213> ORGANISM: Human immunodeficiency virus type 1
 164 <400> SEQUENCE: 13
 165 Asp Arg Val Ile Glu Val Val Gln Gly Ala Tyr Arg Ala Ile Arg Arg
 166 1 5 10 15
 167 Ile His Ile Gly Pro Gly Arg Ala Phe Tyr Thr Thr Lys Asn
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 176 1 5 10 15
 177 Arg Ile His Ile Gly Pro Gly Arg Ala Phe Tyr Thr Thr Lys Asn
 178 20 25 30
 180 <210> SEQ ID NO: 15
 181 <211> LENGTH: 15
 182 <212> TYPE: PRT
 183 <213> ORGANISM: Human immunodeficiency virus type 1
 184 <400> SEQUENCE: 15
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 188 <210> SEQ ID NO: 16
 189 <211> LENGTH: 10
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 191 <213> ORGANISM: Human immunodeficiency virus type 1
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 197 <211> LENGTH: 20
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 206 <210> SEQ ID NO: 18
 207 <211> LENGTH: 24
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209 <213> ORGANISM: Human immunodeficiency virus type 1
210 <400> SEQUENCE: 18
211 Lys Gln Ile Ile Asn Met Trp Gln Glu Val Gly Lys Ala Met Tyr Ala
212 1 5 10 15
213 Pro Pro Ile Ser Gly Gln Ile Arg
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216 <210> SEQ ID NO: 19
217 <211> LENGTH: 24
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219 <213> ORGANISM: Human immunodeficiency virus type 1
220 <400> SEQUENCE: 19
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222 1 5 10 15
223 Glu Pro Leu Gly Val Ala Pro Thr
224 20
226 <210> SEQ ID NO: 20
227 <211> LENGTH: 33
228 <212> TYPE: PRT
229 <213> ORGANISM: Human immunodeficiency virus type 1
230 <400> SEQUENCE: 20
231 Ala Val Ala Glu Gly Thr Asp Arg Val Ile Glu Val Val Gln Gly Ala
232 1 5 10 15
233 Tyr Arg Ala Ile Arg His Ile Pro Arg Arg Ile Arg Gln Gly Leu Glu
234 20 25 30
235 Arg

VERIFICATION SUMMARY

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